



 **COPY**

North Carolina Department of Environment and Natural Resources

Beverly Eaves Perdue, Governor

Division of Waste Management
UST Section

Dee Freeman, Secretary
Dexter R. Matthews, Director

June 5, 2012

Attention: Amy Walker
Central United Methodist Church
30 Union Street North
Concord, NC 28025

Re: Health Risk Evaluation of Water Supply
Incident Number: 27502

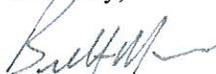
Dear Ms. Walker:

Please find attached the Sample Analytical Results for a water sample collected from your well, identified as WS-1, located at 30 Union Street North, Concord, Cabarrus County, on May 21, 2012. The sample was collected and analyzed as part of the investigation of a petroleum release in the vicinity. The water sample was analyzed for specific target analytes (contaminants), which are listed on the attached Sample Analytical Results. Chloroform was detected in the water sample but does not appear to be related to the petroleum release.

Because chloroform was detected in the water sample, a Health Risk Evaluation (HRE) of the water supply was performed by an environmental toxicologist in the Division of Waste Management. The Health Risk Evaluation, which is attached also, compares the detected concentration of contaminants to acceptable concentrations and provides a recommendation. The HRE indicates that no restrictions on the use of this water are recommended at this time.

If you have any questions, please contact Dave Lilley at (919) 707-8241 or contact me at the address or telephone number listed below for the Mooresville Regional Office.

Sincerely,



Brett Morris
Hydrogeologist
Mooresville Regional Office

Attachments: WS-1 Sample Analytical Results
Health Risk Evaluation

cc: Dr. William F. Pilkington – Cabarrus County Health Department

UST Regional Offices

Asheville (ARO) – 2090 US Highway 70, Swannanoa, NC 28778 (828) 296-4500

Fayetteville (FAY) – 225 Green Street, Suite 714, Systel Building, Fayetteville, NC 28301 (910) 433-3300

Mooreville (MOR) – 610 East Center Avenue, Suite 301, Mooreville, NC 28115 (704) 663-1699

Raleigh (RRO) – 1628 Mail Service Center, Raleigh, NC 27699 (919) 791-4200

Washington (WAS) – 943 Washington Square Mall, Washington, NC 27889 (252) 946-6481

Wilmington (WIL) – 127 Cardinal Drive Extension, Wilmington, NC 28405 (910) 796-7215

Winston-Salem (WS) – 585 Waughtown Street, Winston-Salem, NC 27107 (336) 771-5000

Guilford County Environmental Health, 400 West Market Street, Suite 300, Greensboro, NC 27401, (336) 641-3771

C:\letters\2012\Servco0311\HREresults



12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
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Tax I.D. 62-0814289
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REPORT OF ANALYSIS

Mr. Mike Stanforth
Excel Civil & Environmental Associa
PO Box 6172
Gastonia, NC 28056-6000

May 25, 2012

Date Received : May 23, 2012
Description : Former SERVCO 00311-Concord No. 1
Sample ID : WS-1
Collected By : Trent Stanforth
Collection Date : 05/21/12 12:55

ESC Sample # : L576720-13
Site ID : 00311
Project # : 23056

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Volatile Organics						
Benzene	BDL	0.0010	mg/l	6200B	05/25/12	1
Bromodichloromethane	BDL	0.0010	mg/l	6200B	05/25/12	1
Bromoform	BDL	0.0010	mg/l	6200B	05/25/12	1
Bromomethane	BDL	0.0050	mg/l	6200B	05/25/12	1
Chlorobenzene	BDL	0.0010	mg/l	6200B	05/25/12	1
Chlorodibromomethane	BDL	0.0010	mg/l	6200B	05/25/12	1
Chloroethane	BDL	0.0050	mg/l	6200B	05/25/12	1
2-Chloroethyl vinyl ether	BDL	0.050	mg/l	6200B	05/25/12	1
Chloroform	0.0065	0.0050	mg/l	6200B	05/25/12	1
Chloromethane	BDL	0.0025	mg/l	6200B	05/25/12	1
1,2-Dibromoethane	BDL	0.0010	mg/l	6200B	05/25/12	1
1,2-Dichlorobenzene	BDL	0.0010	mg/l	6200B	05/25/12	1
1,3-Dichlorobenzene	BDL	0.0010	mg/l	6200B	05/25/12	1
1,4-Dichlorobenzene	BDL	0.0010	mg/l	6200B	05/25/12	1
Dichlorodifluoromethane	BDL	0.0050	mg/l	6200B	05/25/12	1
1,1-Dichloroethane	BDL	0.0010	mg/l	6200B	05/25/12	1
1,2-Dichloroethane	BDL	0.0010	mg/l	6200B	05/25/12	1
1,1-Dichloroethene	BDL	0.0010	mg/l	6200B	05/25/12	1
trans-1,2-Dichloroethene	BDL	0.0010	mg/l	6200B	05/25/12	1
1,2-Dichloropropane	BDL	0.0010	mg/l	6200B	05/25/12	1
cis-1,3-Dichloropropene	BDL	0.0010	mg/l	6200B	05/25/12	1
trans-1,3-Dichloropropene	BDL	0.0010	mg/l	6200B	05/25/12	1
Di-isopropyl ether	BDL	0.0010	mg/l	6200B	05/25/12	1
Ethylbenzene	BDL	0.0010	mg/l	6200B	05/25/12	1
Methylene Chloride	BDL	0.0050	mg/l	6200B	05/25/12	1
Methyl tert-butyl ether	BDL	0.0010	mg/l	6200B	05/25/12	1
Naphthalene	BDL	0.0050	mg/l	6200B	05/25/12	1
1,1,2,2-Tetrachloroethane	BDL	0.0010	mg/l	6200B	05/25/12	1
Tetrachloroethene	BDL	0.0010	mg/l	6200B	05/25/12	1
Toluene	BDL	0.0050	mg/l	6200B	05/25/12	1
1,1,1-Trichloroethane	BDL	0.0010	mg/l	6200B	05/25/12	1
1,1,2-Trichloroethane	BDL	0.0010	mg/l	6200B	05/25/12	1
Trichloroethene	BDL	0.0010	mg/l	6200B	05/25/12	1
Trichlorofluoromethane	BDL	0.0050	mg/l	6200B	05/25/12	1
Vinyl chloride	BDL	0.0010	mg/l	6200B	05/25/12	1
o-Xylene	BDL	0.0010	mg/l	6200B	05/25/12	1
m,p-Xylenes	BDL	0.0020	mg/l	6200B	05/25/12	1
Surrogate Recovery						
Toluene-d8	108.		% Rec.	6200B	05/25/12	1
Dibromofluoromethane	102.		% Rec.	6200B	05/25/12	1
a,a,a-Trifluorotoluene	106.		% Rec.	6200B	05/25/12	1
4-Bromofluorobenzene	105.		% Rec.	6200B	05/25/12	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit (PQL)

Note:
The reported analytical results relate only to the sample submitted.
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Reported: 05/25/12 14:01 Printed: 05/25/12 14:01



North Carolina Department of Environment and Natural Resources
Division of Waste Management

Beverly Eaves Perdue
Governor

Dexter R. Matthews
Director

Dee Freeman
Secretary

June 5, 2012

TO: Brett Morris
Mooresville Regional Office
NC UST Section

FROM: David Lilley *D.Lilley*
Environmental Toxicologist
NC Division of Waste Management

RE: Health Risk Evaluation
Tracking ID: 27502
Central United Methodist Church Well Sampling Results
30 Union Street North
Concord, NC

During this sampling event, one contaminant was detected in the well water. The standards used to determine if the water is suitable for drinking and cooking are the United States Environmental Protection Agency's Maximum Contaminant Levels (MCLs) or, if no MCLs exist, North Carolina Groundwater Standards (2L).

If the contaminant concentration exceeds the applicable standard for using the water for drinking and cooking, the contaminant concentration is further analyzed to determine if the water is suitable for other household uses, such as showering, bathing, washing dishes, flushing toilets, and hand washing. The chart below compares the detected contaminant concentration with the applicable standard:

Sample ID	Contaminant	Concentration (mg/l)*	MCL (mg/l)	2L (mg/l)
L576720-13	Chloroform	0.0065	0.080**	

* The abbreviation mg/l stands for milligrams of contaminant per liter of water and is roughly equivalent to parts per million.

** As total trihalomethanes.

RECOMMENDATION: The detected contaminant did not exceed the applicable water standard. Therefore, no restrictions on the use of this water are recommended at this time.